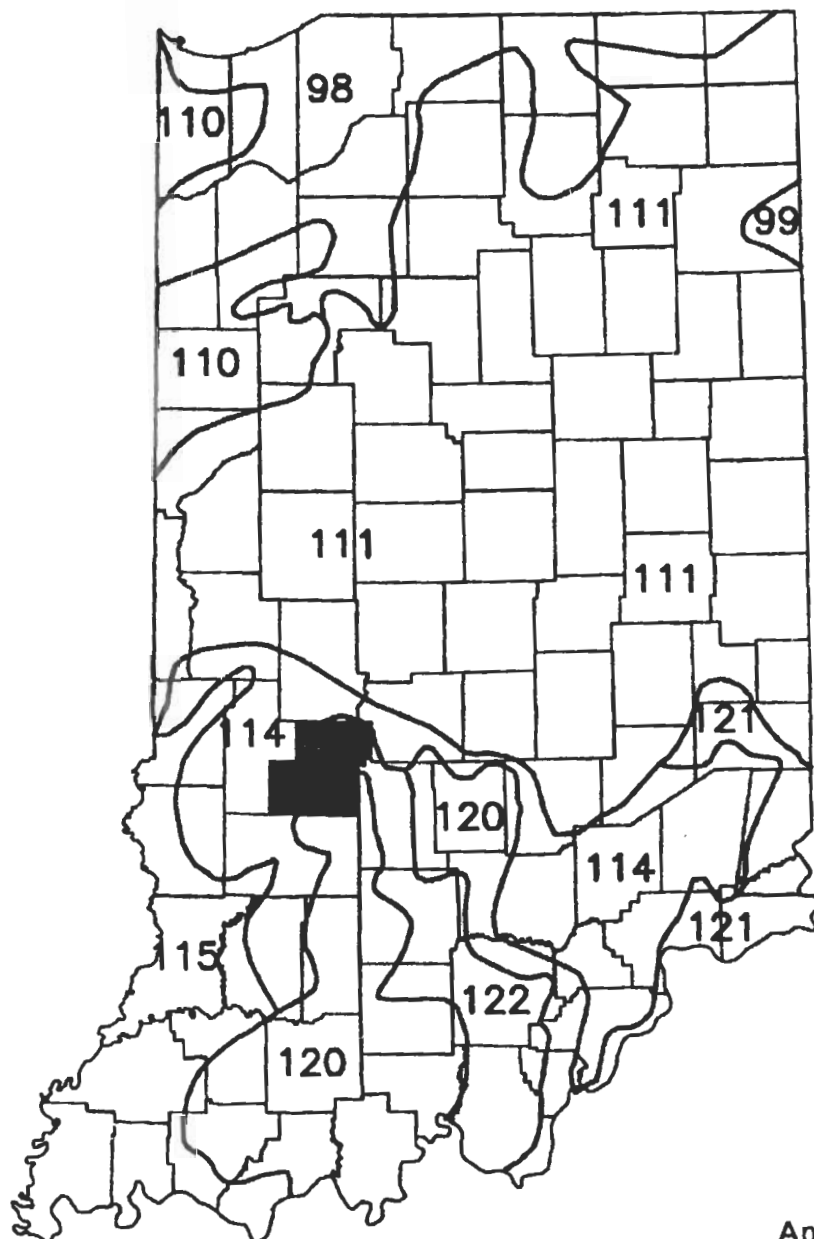


United States
Department of
Agriculture

Natural Resources
Conservation Service

East Central Glaciated
Regional MLRA
Soil Survey Office
Indianapolis, IN

Classification and Correlation of Soils in Owen County, Indiana



April, 1997

OWEN COUNTY, INDIANA
United States Department of Agriculture
Natural Resources Conservation Service

Classification and Correlation
of the Soils of
Owen County, Indiana

A Subset of MLRA's 114, 120 and 122

This correlation was prepared by Byron G. Nagel MLRA Project Leader, in February 1997. A preliminary correlation was conducted August 29 - September 2, 1994, at the Soil Conservation Field Office in Spencer, Indiana. Full time participants were Byron G. Nagel, Assistant State Soil Scientist, SCS; and Paul McCarter Jr., Project Leader, SCS. Other participants were project team members, Jerold Shively, Area Soil Scientist, SCS; and Neil Patterson, Soil Scientist, SCS. Carl Glocker, Soil Scientist, SSQA Staff, SCS, NSSC participated in the Final Field Review held October 4-8, 1993. Gary Struben, Soil Data Quality Specialist, MLRA Region 11, Indianapolis, Indiana made the technical review of this document.

In preparing this correlation, the following was available: 1) soil survey text manuscript, 2) soil maps, 3) field notes and transect data, 4) soil correlation samples, 5) laboratory data, 6) soil interpretation records, and 7) SOI-6 file.

Headnote for Detailed Soil Survey Legend

Map symbols consist of a combination of letters, or letters and numbers. The first capital letter is the initial one of the map unit name. Then two lower case letters that follow separate the map units having names that begin with the same letter. The second capital letter indicates the slope class. Symbols without a slope letter are for miscellaneous areas. Symbols ending with a number indicate the erosion class. Symbols ending with a capital letter as the fifth character indicates inundation phases or other soil phases.

SOIL CORRELATION OF
OWEN COUNTY, INDIANA

Field symbols	Field map unit name	Publication symbol	Approved map unit name
AdA, Pa, Ad	Adrian muck, warm, undrained, 0 to 1 percent slopes	AbgAU	Adrian muck, undrained, 0 to 1 percent slopes
AoC, ByC	Alvin-Bloomfield loamy sands, 6 to 12 percent slopes	AfeC	Alvin-Bloomfield loamy sands, 6 to 12 percent slopes
AoD, ByD	Alvin-Bloomfield loamy sands, 12 to 18 percent slopes	AfeD	Alvin-Bloomfield loamy sands, 12 to 18 percent slopes
AoE, ByE, AnE, PrE2, ByF, ByG, AoF	Alvin-Bloomfield-Princeton complex, 18 to 25 percent slopes	AfeE	Alvin-Bloomfield-Princeton complex, 18 to 25 percent slopes
AnB, PrB, AoB	Alvin-Princeton fine sandy loams, 2 to 6 percent slopes	AfsB	Alvin-Princeton fine sandy loams, 2 to 6 percent slopes
AnC, PrC, AnC2	Alvin-Princeton fine sandy loams, 6 to 12 percent slopes	AfsC	Alvin-Princeton fine sandy loams, 6 to 12 percent slopes
AnD, PrD2, AnD2	Alvin-Princeton fine sandy loams, 12 to 18 percent slopes	AftD	Alvin-Princeton sandy loams, 12 to 18 percent slopes
ArA, Ar	Armiesburg silt loam, 0 to 2 percent slopes, occasionally flooded, brief duration	AhrAK	Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded, brief duration
MuB2, MuA, MuB	Muren Variant silt loam, 2 to 6 percent slopes, eroded	AkeB2	Arney silt loam, 2 to 6 percent slopes, eroded
AvB2, AwB3, AxB2, AvB, AxB	Ava silt loam, 2 to 6 percent slopes, eroded	AloB2	Ava silt loam, 2 to 6 percent slopes, eroded
AyA, RoA, Wt, Ay	Ayrshire fine sandy loam, 0 to 2 percent slopes	AmkA	Ayrshire fine sandy loam, 0 to 2 percent slopes

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
SoA, So	Stendal silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration	BdxAH	Belknap silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
BgA, Bg	Birds silt loam, 0 to 1 percent slopes, frequently flooded, very brief duration	BgeAH	Birds silt loam, 0 to 1 percent slopes, frequently flooded, brief duration
BzA, Bz	Bonnie silt loam, 0 to 1 percent slopes, frequently flooded, brief duration	BodAH	Bonnie silt loam, 0 to 1 percent slopes, frequently flooded, very brief duration
CoB2, CsB2, CrB2, CcB2, CoB, CbB2	Cincinnati silt loam, 2 to 6 percent slopes, eroded	CkkB2	Cincinnati silt loam, 2 to 6 percent slopes, eroded
CoC2, CpC2	Cincinnati silt loam, 6 to 12 percent slopes, eroded	CkkC2	Cincinnati silt loam, 6 to 12 percent slopes, eroded
CpC3, CoC3, CtC3, CfC3	Cincinnati silt loam, 6 to 12 percent slopes, severely eroded	CkkC3	Cincinnati silt loam, 6 to 12 percent slopes, severely eroded
CoD2, HcD2, CtD2, CpD2, HkD2, ChD2	Cincinnati silt loam, 12 to 18 percent slopes, eroded	CkkD2	Cincinnati silt loam, 12 to 18 percent slopes, eroded
CpD3, HkD3, CfD3, HdD3	Cincinnati silt loam, 12 to 18 percent slopes, severely eroded	CkkD3	Cincinnati silt loam, 12 to 18 percent slopes, severely eroded
CvC2, CvB2	Crider silt loam, 6 to 12 percent slopes, eroded	CspC2	Crider silt loam, 6 to 12 percent slopes, eroded

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
CwC3, CvC3	Crider silt loam, 6 to 12 percent slopes, severely eroded	CspC3	Crider silt loam, 6 to 12 percent slopes, severely eroded
DbA, BaA, DcA, Ba	Dubois silt loam, 0 to 2 percent slopes	DfnA	Dubois silt loam, 0 to 2 percent slopes
EbD2, EbC2	Ebal silt loam, 12 to 18 percent slopes, eroded	EaaD2	Ebal silt loam, 12 to 18 percent slopes, eroded
CkE2, CmE3, ChE, ChE2, CmE2, CkE, PbE2	Chetwynd Variant loam, 18 to 25 percent slopes, eroded	GaaE2	Gallimore loam, 18 to 25 percent slopes, eroded
ChG, ChF, CkF, CkG	Chetwynd Variant-Chetwynd loams, 25 to 70 percent slopes	GabG	Gallimore-Chetwynd loams, 25 to 70 percent slopes
JsA, Js, Gg, Gm	Gessie silt loam, 0 to 2 percent slopes, frequently flooded, brief duration	GblAH	Gessie silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
GsD3, RyD3, GrD3, RxD3	Grayford silt loam, 12 to 18 percent slopes, severely eroded	GmcD3	Grayford silt loam, 12 to 18 percent slopes, severely eroded
GrE2, GrE, GrF, AlE, GsE3	Grayford silt loam, 18 to 25 percent slopes, eroded	GmcE2	Grayford silt loam, 18 to 25 percent slopes, eroded
GrD2, RxD2, AlD2	Grayford-Ryker silt loams, 12 to 18 percent slopes, eroded	GmhD2	Grayford-Ryker silt loams, 12 to 18 percent slopes, eroded
OmE2, OnE2, OWE3, OmE, OWE3, OnE,	Otwell Variant silt loam, 18 to 25 percent slopes, eroded	GmpE2	Greybrook silt loam, 18 to 25 percent slopes, eroded

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
OmF, OnF, OmG	Otwell Variant silt loam, 25 to 35 percent slopes	GmpF	Greybrook silt loam, 25 to 35 percent slopes
HxD2, CvD2, CwD2	Hagerstown silt loam, 12 to 18 percent slopes, eroded	HarD2	Haggatt silt loam, 12 to 18 percent slopes, eroded
HxD3, CwD3	Hagerstown silt loam, 12 to 18 percent slopes, severely eroded	HarD3	Haggatt silt loam, 12 to 18 percent slopes, severely eroded
HxE2, CvE, HxE3, HxE, ChE2, ChE, CvE2	Hagerstown-Caneyville silt loams, 18 to 25 percent slopes, eroded	HasE2	Haggatt-Caneyville silt loams, 18 to 25 percent slopes, eroded
HbA, HaA, OmA	Haubstadt silt loam, 0 to 2 percent slopes	HccA	Haubstadt silt loam, 0 to 2 percent slopes
HbB2, HbB3, HaB2, OmB2, DbB2, DcB2, HaB, OnB2, HbB	Haubstadt silt loam, 2 to 6 percent slopes, eroded	HccB2	Haubstadt silt loam, 2 to 6 percent slopes, eroded
HbC3	Haubstadt silt loam, 6 to 12 percent slopes, severely eroded	HccC3	Haubstadt silt loam, 6 to 12 percent slopes, severely eroded
HoA, Ho	Haymond silt loam, 0 to 2 percent slopes, frequently flooded, brief duration	HcgAH	Haymond silt loam, 0 to 2 percent slopes frequently flooded, brief duration
HgA, Hg	Haymond silt loam, sinkhole, 0 to 2 percent slopes, occasionally ponded, very brief duration	HchA	Haymond silt loam, sinkhole, 0 to 2 percent slopes

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
HeG	Hickory loam, 45 to 70 percent slopes	HefG	Hickory loam, 45 to 70 percent slopes
HrE2, HrE, HrD2, HrD3	Hickory-Ryker Variant silt loams, karst, hilly, eroded	Held2	Hickory-Stinesville silt loams, karst, hilly, eroded
HcE, HcE2, HkE2, CoE2, HkE, HeE2, HdE	Hickory silt loam, 18 to 25 percent slopes	HeoE	Hickory silt loam, 18 to 25 percent slopes
HkE3, HpE3	Hickory silt loam, 18 to 25 percent slopes, severely eroded	HeoE3	Hickory silt loam, 18 to 25 percent slopes, severely eroded
HcF, HcG, Hef	Hickory silt loam, 25 to 60 percent slopes	HeoG	Hickory silt loam, 25 to 70 percent slopes
HmG, HmF, HnG	Hickory-Gilpin complex, 35 to 60 percent slopes	HepG	Hickory-Adyeville complex, 35 to 60 percent slopes
HdG, HdF, HgG	Hickory-Chetwynd loams, 35 to 70 percent slopes	HesG	Hickory-Chetwynd loams, 35 to 70 percent slopes
HnE, HpE2, HnE2	Hickory-Rosine Variant silt loams, 18 to 25 percent slopes	HeuE	Hickory-Wellston silt loams, 18 to 25 percent slopes
HnF	Hickory-Rosine Variant silt loams, 25 to 35 percent slopes	HeuF	Hickory-Wellston silt loams, 25 to 35 percent slopes
FeB	Fairpoint Variant silt loam, 1 to 5 percent slopes	HkaB	Hollybrook silt loam, 1 to 5 percent slopes
HsA, Ht, Hs, WsA	Holton silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration	HleAH	Holton silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
HuA, Hu	Hoosierville silt loam, 0 to 1 percent slopes	HnoA	Hoosierville silt loam, 0 to 1 percent slopes
IvA	Iva Variant silt loam, 0 to 2 percent slopes	Lnfa	Lieber silt loam, 0 to 2 percent slopes
IvB, IvB2	Iva Variant silt loam, 2 to 4 percent slopes	Lnfb	Lieber silt loam, 2 to 4 percent slopes
McA	Martinsville loam, 0 to 2 percent slopes, rarely flooded	MecAQ	Martinsville loam, 0 to 2 percent slopes, rarely flooded
MeA, MfA	Martinsville loam, 0 to 2 percent slopes	MecA	Martinsville loam, 0 to 2 percent slopes
MeB, MeB2	Martinsville loam, 2 to 6 percent slopes	MecB	Martinsville loam, 2 to 6 percent slopes
HfA, Hf	Nolin Variant silt loam, 0 to 2 percent slopes, frequently flooded, brief duration	MhhAH	McAdoo silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
NxA, Nx	Nolin Variant silt loam, 0 to 2 percent slopes, occasionally flooded, brief duration	MhhAK	McAdoo silt loam, 0 to 2 percent slopes, occasionally flooded, brief duration
MgA	McGary silt loam, 0 to 2 percent slopes	MhuA	McGary silt loam, 0 to 2 percent slopes
FcG, FgG	Fairpoint Variant silty clay loam, 35 to 75 percent slopes	MrcG	Minnehaha silty clay loam, 35 to 75 percent slopes
MhA, Mh	Montgomery silty clay loam, 0 to 1 percent slopes	MsvA	Montgomery silty clay loam, 0 to 1 percent slopes

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
MnA, Mn	Moundhaven loamy fine sand, 0 to 2 percent slopes, frequently flooded, brief duration	MvrAH	Moundhaven loamy fine sand, 0 to 2 percent slopes, frequently flooded, brief duration
NaB	Nawakwa, silt loam, 2 to 8 percent slopes	NaeB	Nawakwa silt loam, 2 to 8 percent slopes
NeA, WaA, Wa, Sm, Wb, WbA, Sh, Ne	Newark silty clay loam, 0 to 2 percent slopes, frequently flooded, brief duration	NbhAH	Newark silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
OfA, Of, Ph, PhA, Oh	Oldenburg silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration	OfaAH	Oldenburg silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration
OgA, Og	Oldenburg fine sandy loam, 0 to 2 percent slopes, sandy substratum, frequently flooded, very brief duration	OfcAH	Oldenburg fine sandy loam, 0 to 2 percent slopes, sandy substratum, frequently flooded, very brief duration
EmB, EmA, EmB2, EnB	Elkinsville Variant silt loam, 1 to 3 percent slopes	OfeB	Olephant silt loam, 1 to 3 percent slopes
OmC2, OtC2	Otwell silt loam, 6 to 12 percent slopes, eroded	OmK2	Otwell silt loam, 6 to 12 percent slopes, eroded
OwC3, OmC3, OtC3, OpC3, OnC3	Otwell silt loam, 6 to 12 percent slopes, severely eroded	OmK3	Otwell silt loam, 6 to 12 percent slopes, severely eroded
OwD3, OmD2, OmD3, OwD2, OnD2	Otwell silt loam, 12 to 18 percent slopes, severely eroded	OmK3	Otwell silt loam, 12 to 18 percent slopes, severely eroded

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
PbC2, PkC2, PaC2, PcC, PcC2, PbC,	Parke silt loam, 6 to 12 percent slopes, eroded	PbbC2	Parke silt loam, 6 to 12 percent slopes, eroded
PcC3, PbC3, CkC3	Parke silt loam, 6 to 12 percent slopes, severely eroded	PbbC3	Parke silt loam, 6 to 12 percent slopes, severely eroded
PbD2, PkD2, PcD2, PaD2	Parke silt loam, 12 to 18 percent slopes, eroded	PbbD2	Parke silt loam, 12 to 18 percent slopes, eroded
PcD3, PbD3	Parke silt loam, 12 to 18 percent slopes, severely eroded	PbbD3	Parke silt loam, 12 to 18 percent slopes, severely eroded
JoA	Johnsburg Variant silt loam, 0 to 2 percent slopes	PcnA	Patrickburg silt loam, 0 to 2 percent slopes
BbA	Pekin silt loam, 0 to 2 percent slopes, rarely flooded, very brief duration	PcrAQ	Pekin silt loam, 0 to 2 percent slopes, rarely flooded
PsB2, PdB2	Pekin silt loam, 2 to 6 percent slopes, eroded	PcrB2	Pekin silt loam, 2 to 6 percent slopes, eroded
PsC2	Pekin silt loam, 6 to 12 percent slopes, eroded	PcrC2	Pekin silt loam, 6 to 12 percent slopes, eroded
PeA, Vn, PgA, Ra, ReA, Pe	Peoga silt loam, 0 to 1 percent slopes	PhaA	Peoga silt loam, 0 to 1 percent slopes
PnA	Peoga silt loam, ponded, 0 to 1 percent slopes	PhaAP	Peoga silt loam, ponded, 0 to 1 percent slopes

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
PmA, Pm	Piankeshaw silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration	PlcAH	Piankeshaw silt loam 0 to 2 percent slopes, frequently flooded, very brief duration
PkA, PbA	Pike silt loam, 0 to 2 percent slopes	PlfA	Pike silt loam, 0 to 2 percent slopes
PkB2, PbB2, PbB, PaB2, PkB, CkB2	Pike silt loam, 2 to 6 percent slopes, eroded	PlfB2	Pike silt loam, 2 to 6 percent slopes, eroded
Pp	Pits, quarry	Pml	Pits, quarries
PoA, Po	Pope fine sandy loam, 0 to 2 percent slopes, frequently flooded, very brief duration	PrwAH	Pope fine sandy loam 0 to 2 percent slopes, frequently flooded, very brief duration
TsB, TsB2, TsA	Tilsit Variant silt loam, 1 to 3 percent slopes, eroded	PryB	Potawatomi silt loam, 1 to 3 percent slopes
MaD3, MdD3, MaD2, MdD2	Markland Variant silt loam, 12 to 18 percent slopes, severely eroded	PsaD3	Pottersville silt loam, 12 to 18 percent slopes, severely eroded
MaF, MaE, MaE2, MdE2	Markland Variant, 25 to 50 percent slopes	PsaG	Pottersville silt loam, 25 to 50 percent slopes
EnF, EnE, OteE3	Markland Variant silt loam, karst, steep	PsbF	Pottersville silt loam, karst, steep
SaA, Sa	Riverwash	Rnn	Riverwash
CsG, GrG, CbG, CoG	Corydon Variant-Corydon-Rock outcrop complex, 35 to 60 percent slopes	RpzG	Romona-Corydon-Rock outcrop complex, 35 to 60 percent slopes
RyC3, RxC3, AlC3, GsC3, GrC3	Ryker silt loam, 6 to 12 percent slopes, severely eroded	RtcC3	Ryker silt loam, 6 to 12 percent slopes, severely eroded

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
ScA, AvA	Shakamak silt loam, 1 to 3 percent slopes	SfoA	Shakamak silt loam, 1 to 3 percent slopes
MaB2	Shircliff silt loam, 2 to 6 percent slopes, eroded	SfyB2	Shircliff silt loam, 2 to 6 percent slopes, eroded
MaC2, MdC3, MdC2, MaC3, MdC	Shircliff silt loam, 6 to 12 percent slopes, eroded	SfyC2	Shircliff silt loam, 6 to 12 percent slopes, eroded
CsC2, CrC2	Cincinnati Variant silt loam, 6 to 12 percent slopes, eroded	SneC2	Solsberry silt loam, 6 to 12 percent slopes, eroded
CrC3, CsC3, HpC3	Cincinnati Variant silt loam, 6 to 12 percent slopes, severely eroded	SneC3	Solsberry silt loam, 6 to 12 percent slopes, severely eroded
CsD2, HnD2, CrD2	Cincinnati Variant silt loam, 12 to 18 percent slopes, eroded	SneD2	Solsberry silt loam, 12 to 18 percent slopes, eroded
CrD3, HpD3, CsD3, HnD3	Cincinnati Variant silt loam, 12 to 18 percent slopes, severely eroded	SneD3	Solsberry silt loam, 12 to 18 percent slopes, severely eroded
Ubd4, Ub	Cincinnati Variant silt loam, gullied, 12 to 18 percent slopes	SneD5	Solsberry silt loam, 12 to 18 percent slopes, gullied
SnA, Sn	Steff silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration	StaAH	Steff silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration
StdAH	Stendal silt loam, 0 to 2 percent slopes, frequently flooded, brief duration	StdAH	Stendal silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
RxB2, GrA, RxA, GrB2, AlB2, AlA, RyB2, GrB	Ryker Variant silt loam, 2 to 6 percent slopes, eroded	StfB2	Stinesville silt loam, 2 to 6 percent slopes, eroded

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
RxC2, GrC2, ALC2, RyC2, RcC2	Ryker Variant silt loam, 6 to 12 percent slopes, eroded	StfC2	Stinesville silt loam, 6 to 12 percent slopes, eroded
RzC2, RzB2	Ryker Variant-Ryker-Grayford silt loams, karst, rolling, eroded	StgC2	Stinesville-Ryker-Grayford silt loams, karst, rolling, eroded
GtD2, GtE2, GtD3	Ryker Variant-Ryker-Grayford silt loams, karst, hilly, eroded	StgD2	Stinesville-Ryker-Grayford silt loams, karst, hilly, eroded
SpA, Sp	Stonelick sandy loam, 0 to 2 percent slopes, frequently flooded, brief duration	SupAH	Stonelick sandy loam, 0 to 2 percent slopes, frequently flooded, brief duration
HhG, OtG, OtF, OfG, HhF	Uniontown Variant-Hickory silt loams, 35 to 70 percent slopes	SwhG	Stubenville-Hickory complex, 35 to 70 percent slopes
TaA, Ta	Taggart silt loam, 0 to 2 percent slopes	TadA	Taggart silt loam, 0 to 2 percent slopes
FgB, FgA	Fairpoint Variant silt loam, 2 to 8 percent slopes	TakB	Tapawingo silt loam, 2 to 8 percent slopes
BfG, WeG	Berks-Rock outcrop complex, 35 to 70 percent slopes	TcgG	Tipsaw-Rock outcrop complex, 35 to 70 percent slopes
BeF, BeG	Rosine Variant-Tipsaw complex, 25 to 60 percent slopes	TtaG	Tulip-Tipsaw complex, 25 to 60 percent slopes
WpE, WpE2, EbE, EbE2, WmE, WmE2, WnE, WnE2, WnE3, WpE3	Rosine Variant-Wellston-Gilpin complex, 18 to 25 percent slopes	TtcE	Tulip-Wellston-Adyeville silt loams, 18 to 25 percent slopes

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
UcA, UeA, Uc, UdB, Ud, UdA, Gp	Udorthents, 0 to 2 percent slopes	Uaa	Udorthents, cut and filled
VgA	Vigo silt loam, 0 to 2 percent slopes	VdgA	Vigo silt loam, 0 to 2 percent slopes
W, Wct	Water	W	Water
WdA, OcA, OkA, EvA, Nv	Wea, sandy substratum-Elston complex, 0 to 2 percent slopes	WeaA	Wea, sandy substratum-Elston complex, 0 to 2 percent slopes
WfA, ObB2, Ob	Wea loam, sandy substratum-Elston complex, 0 to 2 percent slopes, rarely flooded	WeaAQ	Wea, sandy substratum-Elston complex, 0 to 2 percent slopes, rarely flooded
WmD2, WnD2	Wellston silt loam, 12 to 18 percent slopes, eroded	WhfD2	Wellston silt loam, 12 to 18 percent slopes, eroded
WtA	Whitaker loam, 0 to 2 percent slopes, occasionally flooded, brief duration	WlmAK	Whitaker loam, 0 to 2 percent slopes, occasionally flooded, brief duration
WhA, Wm, Wk, WkA, Es, Lo, Wh	Wilbur silt loam, 0 to 2 percent slopes, frequently flooded, brief duration	WokAH	Wilbur silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
WvA, Wv	Wilhite silty clay, 0 to 1 percent slopes, frequently flooded, long duration	WolAI	Wilhite silty clay, 0 to 1 percent slopes frequently flooded, long duration
PfA, Pf	Wilhite silty clay loam, 0 to 1 percent slopes, frequently flooded, brief duration	WomAH	Wilhite silty clay loam, 0 to 1 percent slopes, frequently flooded, brief duration

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
WzA, Wz	Wirt loam, 0 to 2 percent slopes, rarely flooded, brief duration	WprAQ	Wirt loam, 0 to 2 percent slopes, rarely flooded
WxA, Wx, Cy, Cx, Cu	Wirt silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration	WpuAH	Wirt silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration
WyA, Wy, Cf	Wirt silt loam, 0 to 2 percent slopes, occasionally flooded, brief duration	WpuAK	Wirt silt loam, 0 to 2 percent slopes, occasionally flooded, brief duration
PdB, PdD2, PdD, WcA, UnB, Wc	Wirt-Pekin silt loams, 0 to 6 percent slopes, frequently flooded, very long duration	WpyBJ	Wirt-Pekin silt loams, 0 to 6 percent slopes, frequently flooded, very long duration
ZaB2, ZaB, ZnB3, ZnB2	Zanesville silt loam, 2 to 6 percent slopes, eroded	ZamB2	Zanesville silt loam, soft bedrock substratum, 2 to 6 percent slopes, eroded
ZaC2, WmC2, ZnC2	Zanesville silt loam, 6 to 12 percent slopes, eroded	ZamC2	Zanesville silt loam, soft bedrock substratum, 6 to 12 percent slopes, eroded
ZnC3, WnC3, ZaC3, ZmC3,	Zanesville silt loam, 6 to 12 percent slopes, severely eroded	ZamC3	Zanesville silt loam, soft bedrock substratum, 6 to 12 percent slopes, severely eroded

OWEN COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
ZaD2, ZnD2	Zanesville silt loam, 12 to 18 percent slopes, eroded	ZamD2	Zanesville silt loam, soft bedrock substratum, 12 to 18 percent slopes, eroded
UgD4, Ug	Zanesville silt loam, gullied, 12 to 18 percent slopes	ZamD5	Zanesville silt loam, soft bedrock substratum, 12 to 18 percent slopes, gullied
ZnD3, WnD3, WmD3, WeD3, WpD3, ZaD3,	Zanesville-Rosine Variant silt loams, 12 to 18 percent slopes, severely eroded	ZapD3	Zanesville, soft bedrock substratum-Tulip silt loams, 12 to 18 percent slopes, severely eroded

Series Established by this Correlation and County of Type Location

Adyeville (Perry Co.)	Patrickburg (Owen Co.)
Arney (Clay Co.)	Potawatomi (Owen Co.)
Gallimore (Owen Co.)	Pottersville (Owen Co.)
Greybrook (Owen Co.)	Romona (Owen Co.)
Haggatt (Washington Co.)	Solsberry (Owen Co.)
Hollybrook (Owen Co.)	Stinesville (Owen co.)
Lieber (Clay Co.)	Stubenville (Owen co.)
McAdoo (Posey Co.)	Tapawingo (Owen Co.)
Minnehaha (Owen Co.)	Tipsaw (Perry Co.)
Nawakawa (Owen Co.)	Tulip (Owen Co.)
Olephant (Owen Co.)	

Series Dropped or Made Inactive

None

Cooperators' Names and Credits

The cooperators for the front cover are

United States Department of Agriculture
Natural Resources Conservation Service
in cooperation with the Purdue University
Agricultural Experiment Station

The credits to be given on page ii of the published soil survey are as follows:

This survey was made cooperatively by the National Resources Conservation Service and the Purdue University Agricultural Experiment Station. It is part of the technical assistance furnished to the Owen County Soil and Water Conservation District.

Prior Soil Survey Publications

The last soil survey of Owen County was completed in 1959 and published by the United States Department of Agriculture, Soil Conservation Service in October 1964. Reference to the prior soil survey will be included in the literature citation of the manuscript. This survey replaces the October 1964 soil survey, and provides additional data, updated soil interpretations and 1:12,000 scale soil maps on an orthophotographic base.

Explanation of Map Unit Symbol Characters in the Indiana Statewide Legend

The first three characters are alpha characters which indicate the soil series and phases. The fourth character is an alpha character which represents the slope class. The fifth character is an alpha character or numeric character and represents one of the following in Owen County:

- 2 Moderate Erosion Class
- 3 Severe Erosion Class
- 5 Gullied Phase
- H Frequently flooded, very brief or brief duration
- I Frequently flooded, long duration
- J Frequently flooded, very long duration
- K Occasionally flooded, brief duration
- P Ponded
- Q Rarely flooded
- U Undrained

Instructions for Map Compilation, Map Finishing, and Digitizing

Map compilation has been completed and the soil maps are being digitized at the NRCS Indianapolis MLRA Project Office. Selected county roads will be numbered. The field symbol OtC3 on soil map field sheets 4, 5, 6, 10 and 11 is to be converted to field symbol HbC3. The field symbols So and SoA on designated areas of field sheets 60, 61, 67, and 68 are to be converted to publication symbol StdAH. Field symbols WnE3 and WpE3 are to be converted to published symbol TtcE and a severely eroded spot symbol placed within the map unit. The special symbol for sinkholes will not be placed in these map units which are designated as karst or sinkhole phases: HchAP, Held2, PsbF, StgC2, StgD2. Intermittent ditches are to be used in small valleys and in farm fields where the surrounding natural streams are intermittent. Perennial ditches are to be used in large valleys. All special symbols were evaluated for times used and consistency after they were digitized.

Conventional and Special Symbols Legend

Only those symbols indicated on the NRCS-SOILS-37A (7/96) will be shown on the legend and placed on the soil maps. The definition of the Marsh sandy spot, and wet spot special symbols are not defined, in Owen County, as is stated in Part 647 (11/96) of the National Soil Survey Handbook. Perennial water also includes miscellaneous water in Owen County.

Date: 9/94

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CULTURAL FEATURES		CULTURAL FEATURES (cont.)		SPECIAL SYMBOLS FOR SOIL SURVEY AND SSURGO	
BOUNDARIES		MISCELLANEOUS CULTURAL FEATURES		SOIL DELINEATIONS AND SOIL SYMBOLS	
National, state, or province	---	Farmstead, house (omit in urban areas)	■	✓ LANDFORM FEATURES	
✓ County or parish	---	✓ Church	✠	✓ ESCARPMENTS	
✓ Minor civil division	---	✓ School	✠	✓ Bedrock	
✓ Reservation (national forest or park, state forest or park)	---	Other Religion (label)	✠	✓ Other than bedrock	
Land grant	---	Located object (label)	✠	✓ SHORT STEEP SLOPE	
Limit of soil survey (label) and/or denied access areas	---	Tank (label)	✠	✓ GULLY	
✓ Field sheet matchline & nealline	---	Lookout Tower	✠	✓ DEPRESSION, closed	
Previously Published Survey	---	Oil and/or Natural Gas Wells	✠	✓ SINKHOLE	
OTHER BOUNDARY (label)		Windmill	✠		
✓ Airport, airfield	✈	Lighthouse	✠		
✓ Cemetery	✠				
City/county park	✠				
✓ STATE COORDINATE TICK	✠				
✓ LAND DIVISION CORNERS (section and land grants)	✠				
✓ GEOGRAPHIC COORDINATE TICK	✠				
TRANSPORTATION		HYDROGRAPHIC FEATURES		EXCAVATIONS	
Divided roads	==	✓ STREAMS		✓ PITS	
✓ Other roads	---	✓ Perennial, double line	==	✓ Borrow pit	✠
Trail	---	✓ Perennial, single line	==	✓ Gravel pit	✠
ROAD EMBLEMS & DESIGNATIONS		✓ Intermittent	==	✓ Mine or quarry	✠
Interstate	79 343	✓ Drainage and	==		
✓ Federal	618 110 224	DRAINAGE AND IRRIGATION			
✓ State	62 347	✓ Double line canal (label)	==		
✓ County, farm or ranch	378	✓ Perennial drainage and/or irrigation ditch	==		
✓ RAILROAD	---	✓ Intermittent drainage and/or irrigation ditch	==		
POWER TRANSMISSION LINE (normally not shown)		SMALL LAKES, PONDS AND RESERVOIRS			
PIPELINE (normally not shown)		✓ Perennial water	●		
FENCE (normally not shown)		✓ Miscellaneous water	○		
LEVEES		Flood pool line	---		
Without road	=====				
With road	=====				
With railroad	=====				
Single side slope (showing actual feature location)	=====				
DAMS					
✓ Medium or small	W				
LANDFORM FEATURES					
Prominent Hill or Peak	⬢				
Soil Sample Site	⊙				

DEFINITIONS OF SPECIAL FEATURES FOR OWEN COUNTY,
INDIANA SOIL SURVEY

Feature	Label	Feature Definition
Escarpment, bedrock	ESB	A relatively continuous and steep, slope or cliff produced by erosion, or faulting, breaking the general continuity of more gently sloping land surfaces. Exposed material is hard or soft bedrock. Typically .5 to 2.5 acres.
Escarpment, other	ESO	A relatively continuous and steep, slope or cliff generally produced by erosion, but can be produced by faulting, breaking the general continuity of more gently sloping land surfaces. Exposed nonbedrock material is nonsoil or very shallow, poorly developed soil. Typically .5 to 2.5 acres.
Gravel pit	GPI	An open excavation from which soil and underlying material have been removed, and and used without crushing as a source of sand or of sand or gravel. Typically .5 to 2.5 acres.
Marsh	MAR	A small natural area, intermittently or permanently water-covered, and dominantly has hydrophytic vegetation. Typically .5 to 2.5 acres.
Mine or quarry	MPI	An open excavation from which soil and underlying material is removed exposing the bedrock. Typically 1 to 3 acres.
Perennial water	WAT	Small natural or manmade lake, pond, or pit that contains water most of the year. Typically .2 to 2.5 acres.
Rock outcrop	ROC	An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map unit are shallow over bedrock. Typically .1 to .2 acres.
Sandy spot	SAN	An area of soil where the surface layer is sandy loam, or loamy sand in an area where the surrounding soils have a silt loam or more clayey surface texture. Excluded are areas where the textural classes are adjoining, such as an area of loamy sand in a surrounding Map unit. Typically .25 to 2 acres.
Severely eroded spot	ERO	An area where on the average 75 percent or more of the original surface layer has been lost from accelerated erosion. Typically .5 to 2.5 acres.
Short, steep slope	SLP	Narrow soil area that has slopes that are at least 2 slope classes steeper than the slope class of the surrounding map units. Typically 1 to 2.5 acres.

Sinkhole	SNK	A closed depression formed either by solution of the surficial rock or by collapse of underlying caves. Typically .5 to 2 acres.
Wet spot	WET	An area of soil that is poorly drained or very poorly drained and that is at least 2 drainage classes wetter than the named soils in the surrounding map unit. Typically .5 to 1.75 acres.
Very severely eroded spot	#	An area where class 4 erosion exists. The original A and E and the upper B horizons are lost. Most areas consists of an intricate pattern of U-shaped gullies. The original soil can only be identified in areas adjacent to these very severely eroded spots. Typically .5 to 2 acres in size.

General Soil Map Units

The following 10 map units will be used on the general soil map legend:

McAdoo - Gessie - Stonelick
 Peoga - Dubois - Haubstadt
 Gallimore - Pike - Parke
 Ava - Solsberry - Hickory
 Zanesville - Tulip - Wellston
 Stinesville - Grayford
 Ava - Shakamak - Hickory
 Crider - Haggatt
 Wea - Elston - Martinsville
 Wirt - Holton - Stendal

CONVERSION LEGEND FOR
OWEN COUNTY, INDIANA

Field symbol	Publi- cation symbol	Field symbol	Publi- cation symbol	Field symbol	Publi- cation symbol	Field symbol	Publi- cation symbol
Ad	AbgAU	ByD	AfeD	CrC3	SneC3	EvA	WeaA
AdA	AbgAU	ByE	Affe	CrD2	SneD2	FcG	MrcG
AlA	StfB2	ByF	Affe	CrD3	SneD3	FeB	HkaB
AlB2	StfB2	ByG	Affe	CsB2	CkkB2	FgA	TakB
AlC2	StfC2	Bz	BodAH	CsC2	SneC2	FgB	TakB
AlC3	RtcC3	BzA	BodAH	CsC3	SneC3	FgG	MrcG
AlD2	GmhD2	CbB2	CkkB2	CsD2	SneD2	Gg	GblAH
AlE	GmcE2	CbE	HaseE2	CsD3	SneD3	Gm	GblAH
AnB	AfsB	CbE2	HaseE2	CsG	RpzG	Gp	Uaa
AnC	AfsC	CbG	RpzG	CtC3	CkkC3	GrA	StfB2
AnC2	AfsC	CcB2	CkkB2	CtD2	CkkD2	GrB	StfB2
AnD	AftD	Cf	WpuAK	Cu	WpuAH	GrB2	StfB2
AnD2	AftD	CfC3	CkkC3	CvB2	CspC2	GrC2	StfC2
AnE	Affe	CfD3	CkkD3	CvC2	CspC2	GrC3	RtcC3
AoB	AfsB	ChD2	CkkD2	CvC3	CspC3	GrD2	GmhD2
AoC	AfeC	ChE	GaaE2	CvD2	Hard2	GrD3	GmcD3
AoD	AfeD	ChE2	GaaE2	CvE	HaseE2	GrE	GmcE2
AoE	Affe	ChF	GabG	CvE2	HaseE2	GrE2	GmcE2
AoF	Affe	ChG	GabG	CwC3	CspC3	GrF	GmcE2
Ar	AhrAK	CkB2	PlfB2	CwD2	Hard2	GrG	RpzG
ArA	AhrAK	CkC3	PbbC3	CwD3	Hard3	GsC3	RtcC3
AvA	SfoA	CkE	GaaE2	Cx	WpuAH	GsD3	GmcD3
AvB	AloB2	CkE2	GaaE2	Cy	WpuAH	GsE3	GmcE2
AvB2	AloB2	CkF	GabG	DbA	DfnA	GtD2	StgD2
AwB3	AloB2	CkG	GabG	DbB2	HccB2	GtD3	StgD2
AxB	AloB2	CmE2	GaaE2	DcA	DfnA	GtE2	StgD2
AxB2	AloB2	CmE3	GaaE2	DcB2	HccB2	HaA	HccA
Ay	AmkA	CoB	CkkB2	EbC2	EaaD2	HaB	HccB2
AyA	AmkA	CoB2	CkkB2	EbD2	EaaD2	HaB2	HccB2
Ba	DfnA	CoC2	CkkC2	EbE	TtcE	HbA	HccA
BaA	DfnA	CoC3	CkkC3	EbE2	TtcE	HbB	HccB2
BbA	PcrAQ	CoD2	CkkD2	EmA	OfeB	HbB2	HccB2
BeF	TtaG	CoE2	HeoE	EmB	OfeB	HbB3	HccB2
BeG	TtaG	CoG	RpzG	EmB2	OfeB	HbC3	HccC3
BfG	TcgG	CpC2	CkkC2	EnB	OfeB	HcD2	CkkD2
Bg	BgeAH	CpC3	CkkC3	EnE	PsbF	HcE	HeoE
BgA	BgeAH	CpD2	CkkD2	EnF	PsbF	HcE2	HeoE
ByC	AfeC	CpD3	CkkD3	Es	WokAH	HcF	HeoG
		CrB2	CkkB2			HcG	HeoG
		CrC2	SneC2			HdD3	CkkD3

OWEN COUNTY, INDIANA --Continued

Field symbol	Publi-cation symbol	Field symbol	Publi-cation symbol	Field symbol	Publi-cation symbol	Field symbol	Publi-cation symbol
HdE	HeoE	HuA	HnoA	NaB	NaeB	OwD2	OmKD3
HdF	HesG	HxD2	HarD2	Ne	NbhAH	OwD3	OmKD3
HdG	HesG	HxD3	HarD3	NeA	NbhAH	OwE3	GmpE2
HeE2	HeoE	HxE	HaseE2	Nv	WeaA	OwE3	GmpE2
HeF	HeoG	HxE2	HaseE2	Nx	MhhAK	Pa	AbgAU
HeG	HefG	HxE3	HaseE2	NxA	MhhAK	PaB2	PlfB2
Hf	MhhAH	IvA	Lnfa	Ob	WeaAQ	PaC2	PbbC2
HfA	MhhAH	IvB	Lnfb	ObB2	WeaAQ	PaD2	PbbD2
Hg	HchA	IvB2	Lnfb	OcA	WeaA	PbA	PlfA
HgA	HchA	JoA	Pcna	Of	OfaAH	PbB	PlfB2
HgG	HesG	Js	GblAH	OFA	OfaAH	PbB2	PlfB2
HhF	SwhG	JsA	GblAH	OfG	SwhG	PbC	PbbC2
HhG	SwhG	Lo	WokAH	Og	OfcAH	PbC2	PbbC2
HkD2	CkkD2	MaB2	SfyB2	OgA	OfcAH	PbC3	PbbC3
HkD3	CkkD3	MaC2	SfyC2	Oh	OfaAH	PbD2	PbbD2
HkE	HeoE	MaC3	SfyC2	OkA	WeaA	PbD3	PbbD3
HkE2	HeoE	MaD2	PsaD3	OmA	HccA	PbE2	GaaE2
HkE3	HeoE3	MaD3	PsaD3	OmB2	HccB2	PcC	PbbC2
HmF	HepG	MaE	PsaG	OmC2	OmK2	PcC2	PbbC2
HmG	HepG	MaE2	PsaG	OmC3	OmK3	PcC3	PbbC3
HnD2	Sned2	MaF	PsaG	OmD2	OmKD3	PcD2	PbbD2
HnD3	Sned3	McA	MecAQ	OmD3	OmKD3	PcD3	PbbD3
HnE	HeuE	MdC	SfyC2	OmE	GmpE2	PdB	WpyBJ
HnE2	HeuE	MdC2	SfyC2	OmE2	GmpE2	PdB2	PcrB2
HnF	HeuF	MdC3	SfyC2	OmF	GmpF	PdD	WpyBJ
HnG	HepG	MdD2	PsaD3	OmG	GmpF	PdD2	WpyBJ
Ho	HcgAH	MdD3	PsaD3	OnB2	HccB2	Pe	PhaA
HoA	HcgAH	MdE2	PsaG	OnC3	OmK3	PeA	PhaA
HpC3	SneC3	MeA	MecA	OnD2	OmKD3	Pf	WomAH
HpD3	SneD3	MeB	MecB	OnE	GmpE2	PfA	WomAH
HpE2	HeuE	MeB2	MecB	OnE2	GmpE2	PgA	PhaA
HpE3	HeoE3	MfA	MecA	OnF	GmpF	Ph	OfaAH
HrD2	Held2	MgA	MhuA	OpC3	OmK3	PhA	OfaAH
HrD3	Held2	Mh	MsvA	OtC2	OmK2	PkA	PlfA
HrE	Held2	MhA	MsvA	OtC3	OmK3	PkB	PlfB2
HrE2	Held2	Mn	MvrAH	OtE3	PsbF	PkB2	PlfB2
Hs	HleAH	MnA	MvrAH	OtF	SwhG	PkC2	PbbC2
HsA	HleAH	MuA	AkeB2	OtG	SwhG	PkD2	PbbD2
Ht	HleAH	MuB	AkeB2	OwC3	OmK3	Pm	PlcAH
Hu	HnoA	MuB2	AkeB2				

OWEN COUNTY, INDIANA --Continued

Field symbol	Publi- cation symbol	Field symbol	Publi- cation symbol	Field symbol	Publi- cation symbol	Field symbol	Publi- cation symbol
PmA	PlcAH	TaA	TadA	WnC3	ZamC3		
PnA	PhaAP	TsA	PryB	WnD2	WhfD2		
Po	PrwAH	TsB	PryB	WnD3	ZapD3		
PoA	PrwAH	TsB2	PryB	WnE	TtcE		
Pp	Pml	Ub	SneD5	WnE2	TtcE		
PrB	AfsB	Ubd4	SneD5	WnE3	TtcE		
PrC	AfsC	Uc	Uaa	WpD3	ZapD3		
PrD2	AftD	UcA	Uaa	WpE	TtcE		
PrE2	AffE	Ud	Uaa	WpE2	TtcE		
PsB2	PcrB2	UdA	Uaa	WpE3	TtcE		
PsC2	PcrC2	UdB	Uaa	WsA	HleAH		
Ra	PhaA	UeA	Uaa	Wt	AmkA		
RcC2	StfC2	Ug	ZamD5	WtA	WlmAK		
ReA	PhaA	UgD4	ZamD5	Wv	WolAI		
RoA	AmkA	UnB	WpyBJ	WvA	WolAI		
RxA	StfB2	VgA	VdgA	Wx	WpuAH		
RxB2	StfB2	Vn	PhaA	WxA	WpuAH		
RxC2	StfC2	W	W	Wy	WpuAK		
RxC3	RtcC3	Wa	NbhAH	WyA	WpuAK		
RxD2	GmhD2	Waa	NbhAH	Wz	WprAQ		
RxD3	GmcD3	Wb	NbhAH	WzA	WprAQ		
RyB2	StfB2	WbA	NbhAH	ZaB	ZamB2		
RyC2	StfC2	Wc	WpyBJ	ZaB2	ZamB2		
RyC3	RtcC3	Wct	W	ZaC2	ZamC2		
RyD3	GmcD3	WcA	WpyBJ				
RzB2	StgC2	WdA	WeaA	ZaD2	ZamD2		
RzC2	StgC2	WeD3	ZapD3	ZaD3	ZapD3		
Sa	Rnn	WeG	TcgG	ZmC3	ZamC3		
SaA	Rnn	WfA	WeaAQ	ZnB2	ZamB2		
ScA	SfoA	Wh	WokAH	ZnB3	ZamB2		
Sh	NbhAH	WhA	WokAH	ZnC2	ZamC2		
Sm	NbhAH	Wk	WokAH	ZnC3	ZamC3		
Sn	StaAH	WkA	WokAH	ZnD2	ZamD2		
SnA	StaAH	Wm	WokAH	ZnD3	ZapD3		
		WmC2	ZamC2				
So	BdxAH	WmD2	WhfD2				
SoA	BdxAH	WmD3	ZapD3				
Sp	SupAH	WmE	TtcE				
SpA	SupAH	WmE2	TtcE				
StdAH	StdAH						
Ta	TadA						

Classification of pedons sampled for Laboratory Analysis

Approved Series or Class Identification	Sampled as	Soil Survey Sample No.	Publication Symbol
Alvin	Alvin	S91IN119-19	AfeC (c)
Alvin	Alvin	S91IN119-21	AfsC (c)
Armiesburg	Armiesburg	S90IN119-56	AhrAK (c)
Arney (a)	Muren	S93IN021-1	AkeB2 (c)
Ava	Ava	S87IN119-1	AloB2 (c)
Ava	Ava	S92IN119-4	AloB2
Belknap (d)	Stendal	S88IN119-35	BdxAH (c)
Bloomfield (d)	Bloomfield	S91IN119-20	AfeC (c)
Chetwynd	Chetwynd	S89IN119-15	GabG
Chetwynd (a)	Chetwynd	S93IN109-14	GabG (c)
Cincinnati	Cincinnati	S87IN119-3	CkkC3 (c)
Crider	Crider	S92IN119-1A	CspC2 (c)
Dubois	Dubois	S92IN119-51	DfnA (c)
Ebal (d)	Ebal	S90IN119-55	EaaD2
Elston	Elston	S92IN119-33	WeaAQ (c)
Gallimore (a)	Chetwynd Variant	S89IN119-16	GabG
Gallimore (d)	Chetwynd Variant	S93IN109-13	GabG
Gessie	Jules	S88IN119-9	GblAH (c)
Grayford (d)	Grayford	S92IN119-26	GmcE2 (c)
Greybrook (a)	Elkinsville Variant	S91IN119-45	GmpF
Haggatt (d)	Hagerstown	S92IN119-25	HarD3
Haubstadt	Haubstadt	S92IN119-5	HccA
Hickory	Hickory	S87IN119-17	HeuF (c)
Hickory	Hickory	S92IN119-24	SwhG (c)
Hollybrook	Fairpoint Variant	S94IN119-2	HkaB
Hollybrook (a)	Fairpoint Variant	S94IN119-6	HkaB (c)
Hoosierville	Hoosierville	S92IN119-35	HnoA
Hoosierville (a)	Hoosierville	S93IN21-3	HnoA
Lieber	Iva Variant	S92IN119-36	LnfA
Lieber (a)	Iva Variant	S93IN21-2	LnfA
McAdoo (d)	Nolin	S90IN119-11	MhhAK (c)
McAdoo	Haymond	S92IN119-31	MhhAH (c)
Minnehaha (a)	Fairpoint Variant	S94IN119-5	MrcG (c)
Montgomery	Montgomery	S92IN119-53	MsvA
Nawakwa (a)	Fairpoint Variant	S94IN119-4	NaeB (c)
Newark	Wakeland	S91IN119-40	NbhAH (c)
Newark (b, d)	Newark	S87IN119-5	NbhAH
Oldenburg	Oldenburg	S90IN119-38	OfaAH (c)
Olephant (a)	Elkinsville Variant	S92IN119-22	OfeB
Parke (a)	Parke	S89IN119-12	PbbC2 (c)
Patrickburg (a)	Johnsburg Variant	S89IN119-8	PcnA
Pike	Pike	S89IN119-13	PlfA
Pike (a)	Pike	S92IN119-6	PlfA
Pike	Pike	S92IN119-7	PlfB2 (c)
Potawatomi	Tilsit Variant	S89IN119-6	PryB
Potawatomi (a)	Tilsit Variant	S92IN119-1	PryB (c)
Potawatomi (e)	Tilsit Variant	S92IN119-2	PryB
Pottersville (a)	Markland Variant	S92IN119-28	PsaG (c)

Classification of pedons sampled for Laboratory Analysis (continued)

Approved Series or Class Identification	Sampled as	Soil Survey Sample No.	Publication Symbol
Pottersville (d)	Markland Variant	S90IN119-14	PsaD3
Princeton	Princeton	S91IN119-22	AfsC (c)
Romona (a)	Corydon Variant	S92IN119-32	RpzG (c)
Shakamak (d)	Shakamak	S87IN119-2	SfoA
Shircliff	Markland	S90IN119-13	SfyB2 (c)
Solsberry (a)	Cincinnati Variant	S89IN119-14	SneC3 (c)
Stinesville	Ryker Variant	S92IN119-8	StfB2 (c)
Stinesville (a, e)	Ryker Variant	S92IN119-9	StfC2 (c)
Stonelick	Stonelick	S91IN119-50	SupAH (c)
Stonelick (d)	Stonelick	S89IN119-10	SupAH
Stubenville (a)	Uniontown Variant	S92IN119-23	SwhG (c)
Tapawingo (a)	Fairpoint Variant	S94IN119-3	TakB (c)
Tapawingo	Fairpoint Variant	S94IN119-1	TakB
Tipsaw	Berks Variant	S90IN119-17	TtaG (c)
Tulip (a)	Rosine Variant	S93IN119-34	TtaG (c)
Tulip	Rosine Variant	S90IN119-46	TtcE
Vigo (a)	Vigo	S89IN119-11	VdgA (c)
Vigo (e)	Vigo	S92IN119-3	VdgA
Wea	Wea	S92IN119-39	WeaAQ (c)
Wellston (d)	Wellston	S90IN119-44	TtcE (c)
Wellston (d)	Gilpin	S87IN119-18	HeuF (c)
Wilhite (d)	Wilhite	S90IN119-1	WolAI (c)
Wilhite (b)	Wilhite	S87IN119-4	WomAH (c)
Wirt	Wirt	S93IN119-1	WpuAH (c)
Wirt (b)	Wirt	S87IN119-1B	WpuAH
Zanesville	Zanesville	S89IN119-7	ZamB2 (c)

All samples analyzed at the NSSL, Lincoln, NE, unless footnoted b (Purdue University Soil Characterization Lab).

a) Official Soil Series Type Location

c) Map unit representative pedon

d) Taxadjunct

e) Soil Mechanical Lab Data

Notes to accompany the classification and correlation of the soils of Owen County, Indiana, by Byron Nagel.

Adyeville series	The Adyeville series is established by this correlation. The OSD type location is in Perry County, Indiana. Adyeville soils were included with Wellston and Muskingum soils in the 1964 soil survey.
Alvin series	The Alvin soils in the AfsB, AfsC, and AftD map units have thin strata of silt in the C horizon. The Alvin Official Soil Series description (OSD) range of characteristics (RIC) will not be changed based on data from this subset. No changes will be made to the component tables.
Arney series	The Arney series is established by this correlation. The OSD type location is the former OSD type location for the Muren series (Clay Co., IN). The Muren OSD type location is to be moved to a site that is representative of the series concept.
Belknap series	The Belknap soils (characterization data on 1 pedon) are indicated to have a regular decrease in organic carbon content. They classify into the Endo great group class. This difference does not significantly affect the use and management of these soils. They are considered taxadjuncts.
Bloomfield series	The Bloomfield soils (characterization data on 1 pedon) are indicated to be in the coarse-loamy particle-size family by about 2 percent. This is considered within allowable lab error and this soil is not considered a taxadjunct.
Bonnie series	The pH of the subhorizon immediately below the surface layer in farmed areas ranges to neutral because of the application of lime. This difference does not significantly affect the use and management of these soils. They are not considered taxadjuncts, and no changes will be made in the component table.
Chetwynd series	The Chetwynd soils in the HesG map unit have a pH range of neutral in the series control section. They are considered to have a base status above 35 percent, and therefore within the Alfisol order. This difference does not significantly affect the use and management of these soils. They are not considered taxadjuncts. The pH range is adjusted in the component table.
Cincinnati series	The Cincinnati soils in map units CkkD2 and CkkD3 have a subhorizon that meets the criteria for a fragipan, except for the bleached vertical streaks average less than 10 cm apart. This difference does not significantly affect the use and management of these soils. They are considered taxadjuncts.

Corydon series	The Corydon OSD type location is moved to a more representative area in Owen county.
Dubois series	The Dubois soils have a subhorizon that meets the criteria for a fragipan, except for the bleached vertical streaks average less than 10 cm apart. This difference does not significantly affect the use and management of these soils. They are considered taxadjuncts.
Gallimore series	The Gallimore series is established by this correlation. Gallimore soils were included with Negley soils in the 1964 soil survey. The classification of this series is not clearly defined. The OSD characterization data indicates this soil to be a Typic Dystrochrept. A pedon sampled from Morgan Co. indicates the classification to be a Typic Hapludult.
Grayford series	The Grayford soils (characterization data on 1 pedon) are indicated to have a base status above 60 percent, and therefore would classify in the typic rather than ultic subgroup. The loess thickness on the Grayford soils in map units Gmcd3 and Gmhd2 typically ranges from 22 to 28 inches in thickness which would classify these soils into the fine-silty particle-size family. The particle-size family of the Grayford OSD is on the break between the fine-loamy and fine-silty families. These differences do not significantly affect the use and management of these soils. They are considered taxadjuncts.
Greybrook series	The Greybrook series is established by this correlation. Greybrook soils were included with Otwell soils in the 1964 soil survey.
Haggatt series	The Haggatt series is established by this correlation. The OSD type location is in Washington County, IN. Haggatt soils are established for soils that have been correlated as Hagerstown series, bedrock substratum phase. Haggatt soils were included with Bewleyville soils in the 1964 soil survey.
Haubstadt series	The Haubstadt soils have a subhorizon that meets the criteria for a fragipan, except for the bleached vertical streaks average less than 10 cm apart. This difference does not significantly affect the use and management of these soils. They are considered taxadjuncts.

Hickory series	The Hickory soils in the HelD2, HeoE, HeuE and HeuF are indicated to have a base status less than 60 percent, and therefore would be classified in the ultic subgroup. Characterization data on 1 pedon, and 3 samples by field kit were evaluated. These soils are not considered taxadjuncts. The rock fragment content of the lower part of the series control section of the HelD2 map unit is about 5 percent more than the series range, and adjustments to the component table are made. The Hickory soils in the HefG, HesG and SwHG map units have the depth to the base of the argillic horizon and depth to carbonates at about 35 inches. These differences do not significantly affect the use and management of these soils.
Hollybrook series	The Hollybrook series is established by this correlation. Hollybrook soils were included with map units that have been strip mined and reclaimed since the 1964 soil survey.
Lieber series	The Lieber series is established by this correlation. The OSD type location is in Clay County, IN. Lieber soils were included with Vigo soils in the 1964 soil survey.
McAdoo series	The McAdoo series is established by this correlation. The OSD type location is in Posey County, IN. McAdoo soils are established for soils that have been correlated as Nolin soils that do not have a water table above 6 feet. The McAdoo soils in the MhhAK map unit do not have carbonates in the particle-size control section. This difference does not affect the use and management of this soil and it is not considered a taxadjunct. McAdoo soils were included with Genesee soils in the 1964 soil survey.
Minnehaha series	The Minnehaha series is established by this correlation. Minnehaha soils were included with strip mines in the 1964 soil survey.
Nawakwa series	The Nawakwa series is established by this correlation. Nawakwa soils were included with map units that have been strip mined and reclaimed since the 1964 soil survey.
Newark series	The Newark soils (characterization on 1 pedon) are indicated to have a regular decrease in organic carbon content to a level below 0.2 percent at a depth of 125 cm. Therefore they are considered to have a cambic horizon. This difference does not affect the use and management of this soil. They are considered taxadjuncts.
Olephant series	The Olephant series are established by this correlation. Olephant soils were included with Otwell soils in the 1964 soil survey.

Otwell series	The Otwell soils have a subhorizon that meets the criteria for a fragipan, except for the bleached vertical streaks average less than 10 cm apart. This difference does not significantly affect the use and management of these soils. They are considered taxadjuncts.
Parke series	The Parke OSD type location is moved to a more representative area in Owen County.
Patrickburg series	The Patrickburg series is established by this correlation. Patrickburg soils were included with Johnsburg soils in the 1964 soil survey.
Pekin series	The Pekin soils in the PcrAQ map unit have a subhorizon that meets the criteria for a fragipan, except for the bleached vertical streaks average less than 10 cm apart. This difference does not significantly affect the use and management of these soils. They are considered taxadjuncts.
Pike series	The Pike OSD type location is moved to a more representative area in Owen County.
Potawatomi series	The Potawatomi series is established by this correlation. Potawatomi soils were included with Tilsit soils in the 1964 soil survey.
Pottersville series	The Pottersville series is established by this correlation. Pottersville soils were included with Markland and Otwell soils in the 1964 soil survey.
Romona series	The Romona series is established by this correlation. Romona soils are included with Corydon soils in the 1964 soil survey.
Solsberry series	The Solsberry series is established by this correlation. The Solsberry soils in the SneD2, SneD3 and SneD5 map units have a subhorizon that meets the criteria for a fragipan, except for the bleached vertical streaks average less than 10 cm apart. This difference does not significantly affect the use and management of these soils. Solsberry soils were included with the Cincinnati and Zanesville soils in the 1964 soil survey. These soils are tentatively classified as Fragiudalfs, but will be evaluated in future updates and may be reclassified as Fragic Oxyaquic Hapludalfs.
Steff series	The Steff soils average less than 18 percent clay in the particle-size control section, and therefore are in the coarse-silty family. Also the upper part of the particle-size control section is non-acid in areas where lime has been applied. These differences do not significantly affect the use and management of these soils. Steff soils are considered taxadjuncts. Adjustments are made to the component table.
Stinesville series	The Stinesville series is established by this correlation. Stinesville soils were included with Grayford soils in the 1964 soil survey.

Stubenville series	The Stubenville series is established by this correlation. Stubenville soils were included with Otwell soils in the 1964 soil survey.
Taggart series	The Taggart OSD type location is moved to Morgan County from Owen County.
Tapawingo series	The Tapawingo series is established by this correlation. Tapawingo soils were included with map units that have been strip mined and reclaimed since the 1964 soil survey.
Tipsaw series	The Tipsaw series is established by this correlation. The Tipsaw OSD type location is in Perry County, IN. Tipsaw soils were included with Muskingum soils in the 1964 soil survey.
Tulip series	The Tulip series is established by this correlation. The Tulip soils were included with Muskingum and Wellston soils in the 1964 soil survey.
Vigo series	The Vigo OSD type location is moved to a more representative area in Owen County.
Wea series	The Wea soils (characterization on 1 pedon) indicate the organic-carbon content is less than 0.6 percent throughout the thickness of the mollic epipedon. This difference does not significantly affect the use and management of these soils, and they are not considered taxadjuncts.
Wellston series	The Wellston soils in the HeuE and HeuF map units are considered to average more than 15 percent fine and coarser sand in the particle-size control section. Therefore, they are in the fine-loamy family class. The higher sand content is due to the influence of glacial till above these soils. This difference does not significantly affect the use and management of these soils. They are considered taxadjuncts. Adjustments are made to the component tables.
Wilhite series	The Wilhite soils in the WolAI map unit have a regular decrease in organic carbon and a value of 0.18 at a depth of 125 cm. Therefore, this soil is indicated to have a cambic horizon and classify as a Endoaquept. This difference does not significantly affect the use and management of these soils. They are considered taxadjuncts.
Wirt series	The Wirt soils in the WpuAK map unit are slightly alkaline in the lower part of the series control section. The component table is adjusted. The Wirt soils in the WpraQ map unit have a buried soil in the lower part of the series control section. The Wirt soils in the WpyBJ map unit have a thicker surface layer than is allowed in the OSD range. The differences noted in the above map units do not significantly affect the use and management of these soils.

SOIL SURVEY OWEN COUNTY, INDIANA

CLASSIFICATION OF THE SOILS

An asterick in the first column indicates that the soil is a taxadjunct to the series. See "Notes to accompany the classification and correlation of the soils of Owen County, Indiana" for a description of those characteristics of the soil that are outside the range of the series. The classification of the soils incorporates all amendments published in National Soil Taxonomy Handbook up to and including issue 17.

Soil name	Family or higher taxonomic class
Adrian muck	Sandy or sandy-skeletal, mixed, euic, mesic Terric Medisaprists
Adyeville----	Coarse-loamy, mixed, mesic Typic Hapludults
Alvin-----	Coarse-loamy, mixed, mesic Typic Hapludalfts
Armiesburg---	Fine-silty, mixed, mesic Fluventic Hapludolls
Arney-----	Fine-silty, mixed, mesic Aquultic Hapludalfts
Ava-----	Fine-silty, mixed, mesic Oxyaquic Fragiudalfts
Ayrshire-----	Fine-loamy, mixed, mesic Aeric Endoaqualfts
*Belknap-----	Coarse-silty, mixed, acid, mesic Aeric Fluvaquents
Birds-----	Fine-silty, mixed, nonacid, mesic Typic Fluvaquents
Bloomfield---	Sandy, mixed, mesic Psammentic Hapludalfts
Bonnie-----	Fine-silty, mixed, acid, mesic Typic Fluvaquents
Caneyville---	Fine, mixed, mesic Typic Hapludalfts
Chetwynd-----	Fine-loamy, mixed, mesic Typic Hapludults
*Cincinnati---	Fine-silty, mixed, mesic Oxyaquic Fragiudalfts
Corydon-----	Clayey, mixed, mesic Lithic Argiudolls
Crider-----	Fine-silty, mixed, mesic Typic Paleudalfts
*Dubois-----	Fine-silty, mixed, mesic Aeric Fragiaqualfts
Ebal-----	Fine, mixed, mesic Oxyaquic Hapludalfts
Elston-----	Coarse-loamy, mixed, mesic Typic Argiudolls
Gallimore----	Coarse-loamy, mixed, mesic Typic Dystrochrepts
Gessie-----	Fine-loamy, mixed, mesic Fluventic Eutrochrepts
*Grayford-----	Fine-loamy, mixed, mesic Ultic Hapludalfts
Greybrook----	Fine-loamy, mixed, mesic Typic Hapludalfts
Haggatt-----	Fine, mixed, mesic Typic Hapludalfts
*Haubstadt----	Fine-silty, mixed, mesic Aquic Fragiudalfts
Haymond-----	Coarse-silty, mixed, mesic Fluventic Dystrochrepts
Hickory-----	Fine-loamy, mixed, mesic Typic Hapludalfts
Hollybrook---	Fine-loamy, mixed, mesic Alfic Udarents
Holton-----	Coarse-loamy, mixed, nonacid, mesic Aeric Endoaquepts
Hoosierville	Fine-silty, mixed, mesic Typic Epiaqualfts
Lieber-----	Fine-silty, mixed, mesic Aeric Epiaqualfts
Martinsville	Fine-loamy, mixed, mesic Typic Hapludalfts
McAdoo-----	Fine-silty, mixed, mesic Fluventic Eutrochrepts
McGary-----	Fine, mixed, mesic Aeric Epiaqualfts
Minnehaha----	Fine-loamy, mixed, mesic Alfic Udarents
Montgomery---	Fine, mixed, mesic Vertic Endoaquolls
Moundhaven---	Sandy, mixed, mesic Typic Udifluvents
Nawakwa-----	Fine-loamy, mixed, mesic Typic Udorthents

SOIL SURVEY OWEN COUNTY, INDIANA

CLASSIFICATION OF THE SOILS--Continued

Soil name	Family or higher taxonomic class
*Newark-----	Fine-silty, mixed, nonacid, mesic Aeric Fluvaquents
Oldenburg----	Coarse-loamy, mixed, mesic Fluvaquentic Eutrochrepts
Olephant-----	Fine-silty, mixed, mesic Ultic HapludalFs
*Otwell-----	Fine-silty, mixed, mesic Oxyaquic FragiudalFs
Parke-----	Fine-silty, mixed, mesic Ultic HapludalFs
Patrickburg	Fine-silty, mixed, mesic Aeric FragiaqualFs
*Pekin-----	Fine-silty, mixed, mesic Aquic FragiudulFs
Peoga-----	Fine-silty, mixed, mesic Typic EpiaqualFs
Piankeshaw---	Fine-loamy, mixed, mesic Dystric Fluventic Eutrochrepts
Pike-----	Fine-silty, mixed, mesic Ultic HapludalFs
Pope-----	Coarse-loamy, mixed, mesic Fluventic Dystrochrepts
Potawatomi---	Fine-silty, mixed, mesic Aquic FragiudalFs
Pottersville	Fine-silty, mixed, mesic Typic HapludalFs
Princeton----	Fine-loamy, mixed, mesic Typic HapludalFs
Romona-----	Fine, mixed, mesic Typic Argiudolls
Ryker-----	Fine-silty, mixed, mesic Typic PaleudalFs
Shakamak-----	Fine-silty, mixed, mesic Aquic FragiudalFs
Shircliff----	Fine, mixed, mesic Oxyaquic HapludalFs
Solsberry----	Fine-silty, mixed, mesic Oxyaquic FragiudalFs
*Steff-----	Fine-silty, mixed, mesic Fluvaquentic Dystrochrepts
Stendal-----	Fine-silty, mixed, acid, mesic Aeric Fluvaquents
Stinesville	Fine-silty, mixed, mesic Typic PaleudalFs
Stonelick----	Coarse-loamy, mixed, calcareous, mesic Typic Udifulvents
Stubenville	Fine-silty, mixed, mesic Typic HapludalFs
Taggart-----	Fine-silty, mixed, mesic Aeric EpiaqualFs
Tapawingo----	Loamy, mixed, mesic Typic Udorthents
Tipsaw-----	Coarse-loamy, mixed, mesic Typic Dystrochrepts
Tulip-----	Fine-loamy, mixed, mesic Oxyaquic HapludalFs
Udorthents---	Loamy, mixed, mesic Udorthents
Vigo-----	Fine-silty, mixed, mesic Typic GlossaqualFs
Wea-----	Fine-loamy, mixed, mesic Typic Argiudolls
*Wellston----	Fine-silty, mixed, mesic Ultic HapludalFs
Whitaker-----	Fine-loamy, mixed, mesic Aeric EndoaqualFs
Wilbur-----	Coarse-silty, mixed, mesic Fluvaquentic Eutrochrepts
*Wilhite-----	Fine, mixed, nonacid, mesic Typic Fluvaquents
Wirt-----	Coarse-loamy, mixed, mesic Dystric Fluventic Eutrochrepts
Zanesville---	Fine-silty, mixed, mesic Oxyaquic FragiudalFs

Certifications

The State Soil Scientist certifies that:

- a) The field mapping was completed in October 1993.
- b) Interpretations have been coordinated with adjoining survey areas.
- c) The location of all typical pedons in the survey area are correct and are within delineation's that have the referenced name.
- d) All typical pedons are correctly classified according to Soil Taxonomy, and amendment issues 1-17 of the National Soil Taxonomy Handbook.
- e) The soil maps are complete, accurate and consistent.
- f) Owen County has made a quality join with the following soil survey areas: Clay, Greene, Monroe, Morgan and Putnam counties. The Correlation Memorandums for these survey areas will not be amended at this time. A record of the map unit changes is placed on a set of the soil maps for each county. These revised maps will be filed in the MLRA Project Office in each county case file.

Clay County (published 1982); The Clay County Soil Survey will accept the following Owen Co. map units:

AfsB	Alvin-Princeton fine sandy loams, 2 to 6 percent slopes
AfsC	Alvin-Princeton fine sandy loams, 6 to 12 percent slopes
BdxAH	Belknap silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration
CkkD2	Cincinnati silt loam, 12 to 18 percent slopes, eroded
CkkD3	Cincinnati silt loam, 12 to 18 percent slopes, severely eroded
GabG	Gallimore-Chetwynd loams, 25 to 70 percent slopes
HccB2	Haubstadt silt loam, 2 to 6 percent slopes, eroded
HeoE	Hickory silt loam, 18 to 25 percent slopes
HeoG	Hickory silt loam, 25 to 70 percent slopes
HepG	Hickory-Adyeville complex, 35 to 60 percent slopes
HeuE	Hickory-Wellston silt loams, 18 to 25 percent slopes
HeuF	Hickory-Wellston silt loams, 25 to 35 percent slopes
HleAH	Holton silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration
MhhAK	McAdoo silt loam, 0 to 2 percent slopes, occasionally flooded, brief duration

MrcG Minnehaha silty clay loam, 35 to 70 percent slopes

NbhAH Newark silt loam, 0 to 2 percent slopes, frequently flooded, brief duration

OfaAH Oldenburg silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration

OmkC3 Otwell silt loam, 6 to 12 percent slopes, severely eroded

PbbC2 Parke silt loam, 6 to 12 percent slopes, eroded

PlfB2 Pike silt loam, 2 to 6 percent slopes, eroded

SfoA Shakamak silt loam, 1 to 3 percent slopes

SneC2 Solsberry silt loam, 6 to 12 percent slopes, eroded

SneC3 Solsberry silt loam, 6 to 12 percent slopes, severely eroded

SneD2 Solsberry silt loam, 12 to 18 percent slopes, eroded

SneD3 Solsberry silt loam, 12 to 18 percent slopes, severely eroded

StaAH Steff silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration

StdAH Stendal silt loam, 0 to 2 percent slopes, frequently flood, brief duration

TtcE Tulip-Wellston-Adyeville silt loams, 18 to 25 percent slopes

WokAH Wilbur silt loam, 0 to 2 percent slopes, frequently flooded, brief duration

WpuAH Wirt silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration

Greene county (published 1988); the Greene county Soil Survey will accept the following Owen co. map units:

AffE Alvin-Bloomfield-Princeton complex, 18 to 25 percent slopes

AfsB Alvin-Princeton fine sandy loams, 2 to 6 percent slopes

AfsC Alvin-Princeton fine sandy loams, 6 to 12 percent slopes

GaaE2 Gallimore loam, 18 to 25 percent slopes, eroded

GabG Gallimore-Chetwynd loams, 25 to 70 percent slopes

GmpE2 Greybrook silt loam, 18 to 25 percent slopes, eroded

HasE2 Haggatt-Caneyville silt loams, 18 to 25 percent slopes, eroded

HeoG Hickory silt loam, 25 to 70 percent slopes

HepG Hickory-Adyeville complex, 35 to 60 percent slopes

HeuE Hickory-Wellston silt loams, 18 to 25 percent slopes

HeuF	Hickory-Wellston silt loams, 25 to 35 percent slopes
MhhAH	McAdoo silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
NbhAH	Newark silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
PcrC2	Pekin silt loam, 6 to 12 percent slopes, eroded
Pml	Pits, quarries
PryB	Potawatomi silt loam, 1 to 3 percent slopes
PsaD3	Pottersville silt loam, 12 to 18 percent slopes, severely eroded
SneC2	Solsberry silt loam, 6 to 12 percent slopes, eroded
SneC3	Solsberry silt loam, 6 to 12 percent slopes, severely eroded
SneD2	Solsberry silt loam, 12 to 18 percent slopes, eroded
SneD3	Solsberry silt loam, 12 to 18 percent slopes, severely eroded
StdAH	Stendal silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
SupAH	Stonelick sandy loam, 0 to 2 percent slopes, frequently flooded, brief duration
TcgG	Tipsaw-Rock outcrop complex, 35 to 70 percent slopes
TtaG	Tulip-Tipsaw complex, 25 to 60 percent slopes
TtcE	Tulip-Wellston-Adyeville silt loams, 18 to 25 percent slopes
WomAH	Wilhite silty clay loam, 0 to 1 percent slopes, frequently flooded, brief duration
WpuAH	Wirt silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration
ZamB2	Zanesville silt loam, soft bedrock substratum, 2 to 6 percent slopes, eroded
ZamC2	Zanesville silt loam, soft bedrock substratum, 6 to 12 percent slopes, eroded
ZamC3	Zanesville silt loam, soft bedrock substratum, 6 to 12 percent slopes, severely eroded
ZapD3	Zanesville, soft bedrock substratum-Tulip silt loams, 12 to 18 percent slopes, severely eroded

Monroe County (published 1981); the Monroe County Soil Survey will accept the following Owen County map units:

BdxAH	Belknap silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration
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CspC2 Crider silt loam, 6 to 12 percent slopes, eroded
 CspC3 Crider silt loam, 6 to 12 percent slopes, severely eroded
 DfnA Dubois silt loam, 0 to 2 percent slopes
 GabG Gallimore-Chetwynd loams, 25 to 70 percent slopes
 HarD2 Haggatt silt loam, 12 to 18 percent slopes, eroded
 HarD3 Haggatt silt loam, 12 to 18 percent slopes, severely eroded
 HasE2 Haggatt-Caneyville silt loams, 18 to 25 percent slopes, eroded
 HccB2 Haubstadt silt loam, 2 to 6 percent slopes, eroded
 HcgAH Haymond silt loam, 0 to 2 percent slopes, frequently flooded,
 brief duration
 HeoG Hickory silt loam, 25 to 70 percent slopes
 LnfA Lieber silt loam, 0 to 2 percent slopes
 MsvA Montgomery silty clay loam, 0 to 1 percent slopes
 NbhAH Newark silt loam, 0 to 2 percent slopes, frequently flooded,
 brief duration
 OmkC2 Otwell silt loam, 6 to 12 percent slopes, eroded
 PcrC2 Pekin silt loam, 6 to 12 percent slopes, eroded
 PryB Potawatomi silt loam, 1 to 3 percent slopes
 StfB2 Stinesville silt loam, 2 to 6 percent slopes, eroded
 StfC2 Stinesville silt loam, 6 to 12 percent slopes, eroded
 SupAH Stonelick sandy loam, 0 to 2 percent slopes, frequently
 flooded, brief duration
 TtaG Tulip-Tipsaw complex, 25 to 60 percent slopes
 TtcE Tulip-Wellston-Adyeville silt loams, 18 to 25 percent
 slopes
 WhfD2 Wellston silt loam, 12 to 18 percent slopes, eroded
 WokAH Wilbur silt loam, 0 to 2 percent slopes, frequently flooded,
 brief duration
 WpuAH Wirt silt loam, 0 to 2 percent slopes, frequently flooded, very
 brief duration
 ZamC2 Zanesville silt loam, soft bedrock substratum, 6 to 12 percent
 slopes, eroded
 ZamC3 Zanesville silt loam, soft bedrock substratum, 6 to 12 percent
 slopes, severely eroded

Morgan County (published 1981); the Morgan County Soil Survey will accept the following Owen Co. map units:

AhrAK	Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded, brief duration
AloB2	Ava silt loam, 2 to 6 percent slopes, eroded
DfnA	Dubois silt loam, 0 to 2 percent slopes
GabG	Gallimore-Chetwynd loams, 25 to 70 percent slopes
GmhD2	Grayford-Ryker silt loams, 12 to 18 percent slopes, eroded
HccB2	Haubstadt silt loam, 2 to 6 percent slopes, eroded
HchAP	Haymond silt loam, sinkhole, 0 to 2 percent slopes, occasionally flooded, very brief duration
HeoG	Hickory silt loam, 25 to 70 percent slopes
LnfA	Lieber silt loam, 0 to 2 percent slopes
NbhAH	Newark silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
OmkC2	Otwell silt loam, 6 to 12 percent slopes, eroded
PhaA	Peoga silt loam, 0 to 1 percent slopes
PlcAH	Piankeshaw silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration
PsaG	Pottersville silt loam, 25 to 50 percent slopes
RpzG	Romona-Corydon-Rock outcrop complex, 35 to 60 percent slopes
SfyB2	Shircliff silt loam, 2 to 6 percent slopes, eroded
StfB2	Stinesville silt loam, 2 to 6 percent slopes, eroded
StfC2	Stinesville silt loam, 6 to 12 percent slopes, eroded
StgC2	Stinesville-Ryker-Grayford silt loams, karst, rolling, eroded
StgD2	Stinesville-Ryker-Grayford silt loams, karst, hilly, eroded
TcgG	Tipsaw-Rock outcrop complex, 35 to 70 percent slopes
WeaAQ	Wea, sandy substratum-Elston complex, 0 to 2 percent slopes, rarely flooded, very brief duration
WlmAK	Whitaker loam, 0 to 2 percent slopes, occasionally flooded, brief duration
WokAH	Wilbur silt loam, 0 to 2 percent slopes, frequently flooded, brief duration

Putnam county (published 1981); the Putnam County Soil Survey will accept the following Owen County map units:

AkeB2	Arney silt loam, 2 to 6 percent slopes, eroded
AloB2	Ava silt loam, 2 to 6 percent slopes, eroded
BgeAH	Birds silt loam, 0 to 1 percent slopes, frequently flooded, brief duration
DfnA	Dubois silt loam, 0 to 2 percent slopes
GmhD2	Grayford-Ryker silt loams, 12 to 18 percent slopes, eroded
GmpF	Greybrook silt loam, 25 to 35 percent slopes
HccB2	Haubstadt silt loam, 2 to 6 percent slopes, eroded
HcgAH	Haymond silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
HefG	Hickory loam, 45 to 70 percent slopes
HeoG	Hickory silt loam, 25 to 70 percent slopes
HesG	Hickory-Chetwynd loams, 35 to 70 percent slopes
HeuE	Hickory-Wellston silt loams, 18 to 25 percent slopes
HeuF	Hickory-Wellston silt loams, 25 to 35 percent slopes
HleAH	Holton silt loam, 0 to 2 percent slopes, frequently flooded, very brief duration
LnfA	Lieber silt loam, 0 to 2 percent slopes
NbhAH	Newark silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
OfeB	Olephant silt loam, 1 to 3 percent slopes
OmkC2	Otwell silt loam, 6 to 12 percent slopes, eroded
OmkC3	Otwell silt loam, 6 to 12 percent slopes, severely eroded
OmkD3	Otwell silt loam, 12 to 18 percent slopes, severely eroded
PhaA	Peoga silt loam, 0 to 1 percent slopes
PlfB2	Pike silt loam, 2 to 6 percent slopes, eroded
StfB2	Stinesville silt loam, 2 to 6 percent slopes, eroded
StfC2	Stinesville silt loam, 6 to 12 percent slopes, eroded
WpyBJ	Wirt-Pekin silt loams, 0 to 6 percent slopes, frequently flooded, very long duration

General Soil Map

A 1:250,000 STATSGO map was used as the base map for the general soil map. This map will be used to update all adjoining subsets. Therefore, a general soil map join was not made with the adjoining subsets.

Approval Signature and Date

Travis Neely 5/6/97
TRAVIS NEELY / Date
Soil Survey Area 11 Team Leader

Robert L. Eddleman 5/6/97
ROBERT L. EDDLEMAN / Date
State Conservationist